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CLAIMS:

- 1. A method of treatment of an extracorporeal or isolated organ, comprising contacting the organ with a composition including a metal carbonyl compound or pharmaceutically acceptable salt thereof and at least one pharmaceutically acceptable carrier.
- 2. A method according to claim 1 wherein the metal carbonyl makes available carbon monoxide (CO) to limit post-ischaemic damage.
- 3. A method according to claim 1 wherein said metal carbonyl makes CO available by at least one of the following means:
- CO derived by dissociation of the metal carbonyl is present in the composition in dissolved form;
- 2) on contact with a solvent the metal carbonyl releases CO;
- 3) on contact with a tissue, organ or cell the metal carbonyl releases CO;
- 4) on irradiation, the metal carbonyl releases CO.
- 4. A method according to any one of claims 1 to 3 wherein said organ is extracorporeal.
- 5. A method according to any one of claims 1 to 3 wherein said organ is inside or attached to the body but isolated from the blood supply.

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- A method according to any one of claims 1 to 5 6. wherein the contacting step includes perfusing said organ with said composition.
- A method according to any one of claims 1 to 6 7. wherein the metal carbonyl is a compound of the formula $M(CO)_xA_v$ where x is at least one, y is at least one, M is a metal, the or each A is an atom or group bonded to M by an ionic, covalent or coordination bond but is not CO, and in the case where y>1 each A may be the same or different, or a pharmaceutically acceptable salt of such a compound.
- A method according to claim 7 wherein M is a transition metal.
- A method according to claim 7 or claim 8, wherein A is selected from neutral or anionic ligands such as halide or derived from Lewis bases and having N, P, O, S or C as the coordinating atom.
- 10. A method according to any one of claims 1 to 6 wherein the metal carbonyl compound has the formula

 $M(CO)_x A_vB_z$ where

M is Fe, Co or Ru,

x is at least one,

y is at least one,

z is zero or at least one,

each A is a ligand other than CO and is monodentate or polydentate with respect to M and is selected from the amino acids

alanine

arginine

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asparagine aspartic acid cysteine glutamic acid glutamine glycine histidine isoleucine leucine lysine methionine phenylalanine proline serine threonine tryptophan tyrosine valine $[O(CH_2COO)_2]^{2-}$ and

[NH(CH₂COO)₂]²⁻, and

isolated from the blood supply.

11. Use of a metal carbonyl compound in the manufacture of a medicament for treatment of an isolated organ to limit post-ischaemic damage in an isolated organ which is inside or attached to the body but

B is optional and is a ligand other than CO.

12. Use according to claim 11 wherein the metal carbonyl is a compound of the formula $M(CO)_xA_y$ where x is at least one, y is at least one, M is a metal, the or each A is an atom or group bonded to M by an ionic, covalent or coordination bond but is not CO, and in the

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case where y>1 each A may be the same or different, or a pharmaceutically acceptable salt of such a compound.

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- 13. Use according to claim 12 wherein M is a transition metal.
- Use according to claim 12 or claim 13, wherein A is selected from neutral or anionic ligands such as halide or derived from Lewis bases and having N, P, O, S or C as the coordinating atom.
- Use according to claim 11 wherein the metal carbonyl compound has the formula

 $M(CO)_x A_y B_z$ where

M is Fe, Co or Ru,

x is at least one,

y is at least one,

z is zero or at least one,

each A is a ligand other than CO and is monodentate or polydentate with respect to M and is selected from the amino acids

alanine

arginine

asparagine

aspartic acid

cysteine

glutamic acid

glutamine

glycine

histidine

isoleucine

leucine

lysine

methionine

phenylalanine

proline

serine

threonine

tryptophan

tyrosine

valine

[O(CH₂COO)₂]²⁻ and

[NH(CH₂COO)₂]²⁻, and

B is optional and is a ligand other than CO.